

FIG. 1

	$s_0()$	$s_1()$	.....	0	.....	$s_{N-1}()$
$w_1 = \Sigma():$	$e^{i2\pi(0)(0)/(N)}$	$e^{i2\pi(1)(0)/(N)}$	.....	$e^{i2\pi(2)(0)/(N)}$	.....	$e^{i2\pi(N-1)(0)/(N)}$
$w_2 = \Sigma():$	$e^{i2\pi(0)(1)/(N)}$	$e^{i2\pi(1)(1)/(N)}$	.....	$e^{i2\pi(2)(1)/(N)}$	.....	$e^{i2\pi(N-1)(1)/(N)}$
$w_3 = \Sigma():$	$e^{i2\pi(0)(2)/(N)}$	$e^{i2\pi(1)(2)/(N)}$	.....	$e^{i2\pi(2)(2)/(N)}$	.....	$e^{i2\pi(N-1)(2)/(N)}$
.....
$w_N = \Sigma():$	$e^{i2\pi(0)(N-1)/(N)}$	$e^{i2\pi(1)(N-1)/(N)}$	.....	$e^{i2\pi(2)(N-1)/(N)}$	.....	$e^{i2\pi(N-1)(N-1)/(N)}$

FIG. 2

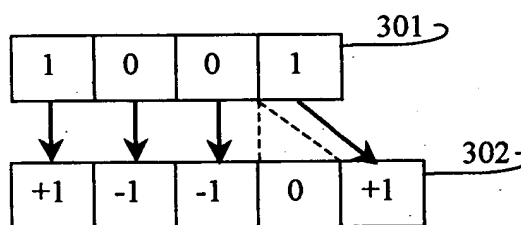


FIG. 3

	$s_0()$	$s_1()$	.....	p_m$	.....	s_{N-1}()$
$w_1 = \Sigma():$	$e^{i2\pi(0)(0)/(N)}$	$e^{i2\pi(1)(0)/(N)}$	.....	$e^{i2\pi(2)(0)/(N)}$	.....	$e^{i2\pi(N-1)(0)/(N)}$
$w_2 = \Sigma():$	$e^{i2\pi(0)(1)/(N)}$	$e^{i2\pi(1)(1)/(N)}$	.....	$e^{i2\pi(2)(1)/(N)}$	.....	$e^{i2\pi(N-1)(1)/(N)}$
$w_3 = \Sigma():$	$e^{i2\pi(0)(2)/(N)}$	$e^{i2\pi(1)(2)/(N)}$	.....	$e^{i2\pi(2)(2)/(N)}$	.....	$e^{i2\pi(N-1)(2)/(N)}$
.....
$w_N = \Sigma():$	$e^{i2\pi(0)(N-1)/(N)}$	$e^{i2\pi(1)(N-1)/(N)}$	.....	$e^{i2\pi(2)(N-1)/(N)}$	.....	$e^{i2\pi(N-1)(N-1)/(N)}$

FIG. 4

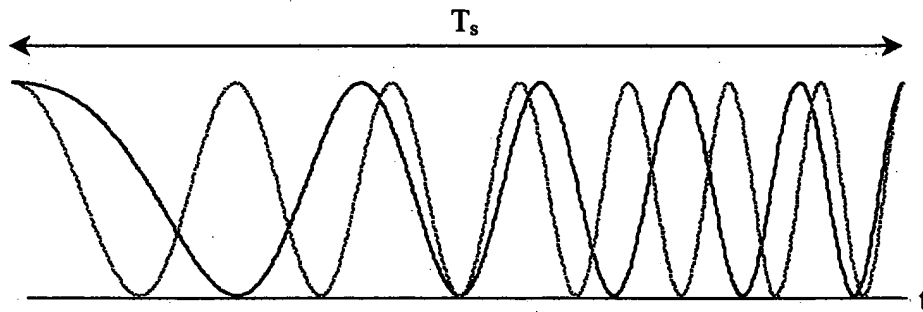
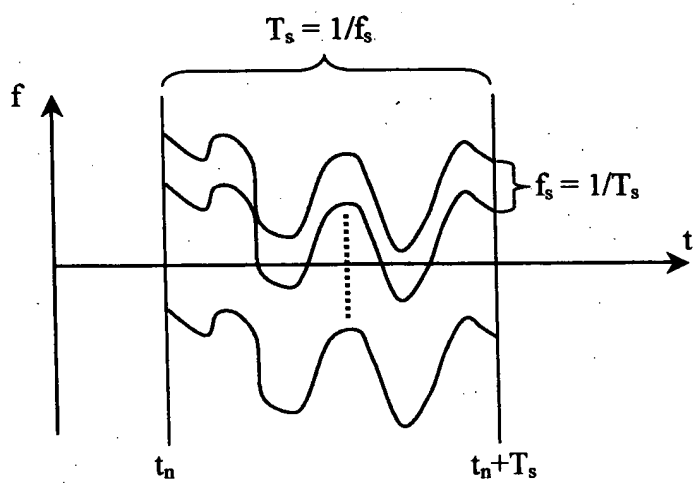
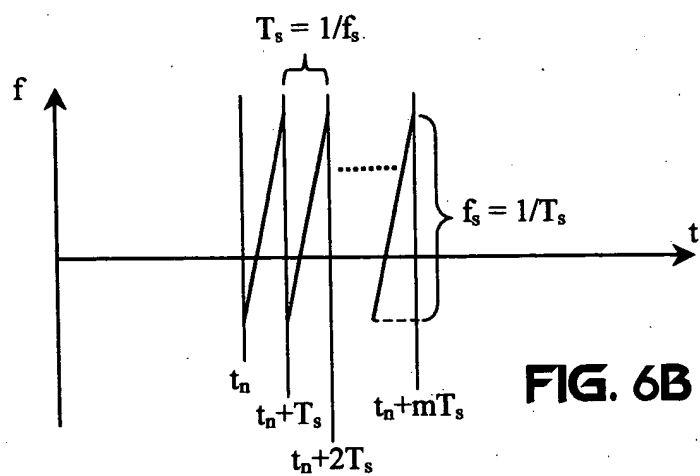
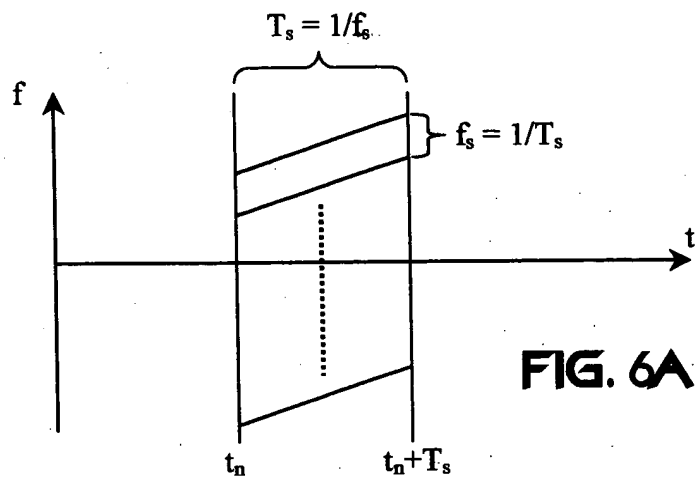
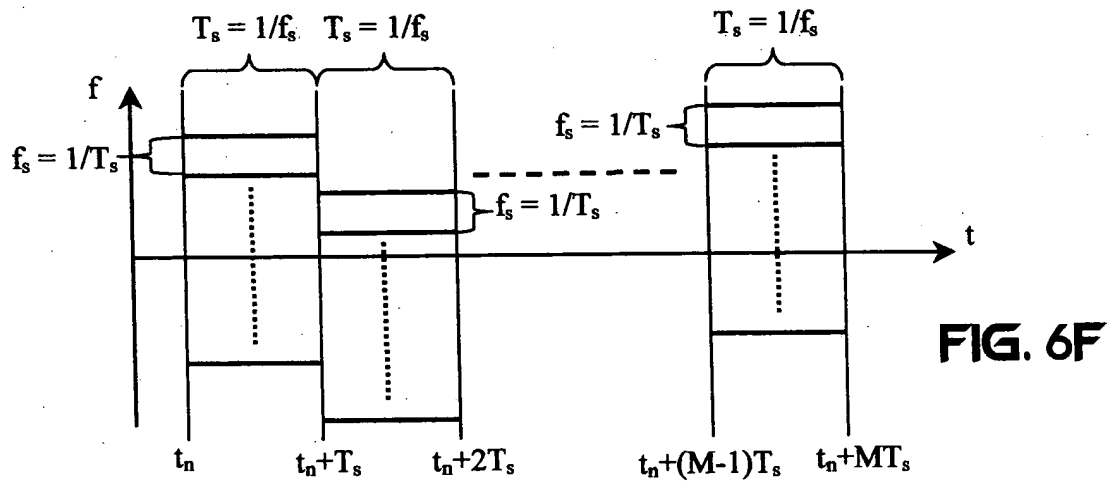
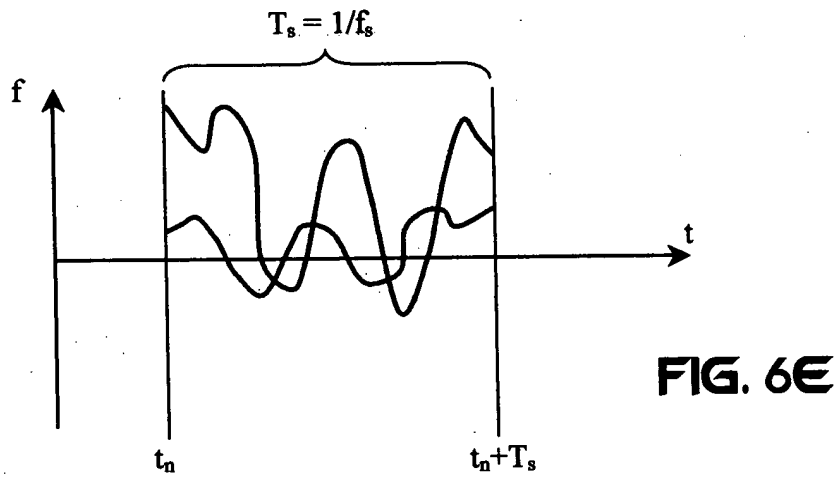
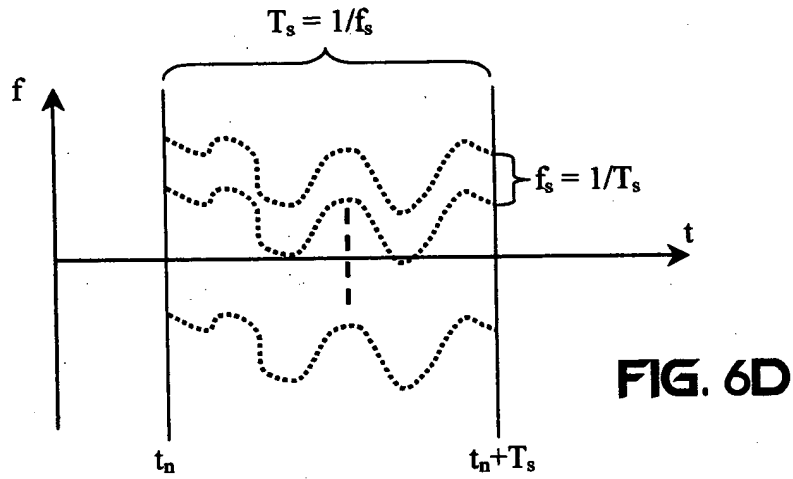


FIG. 5





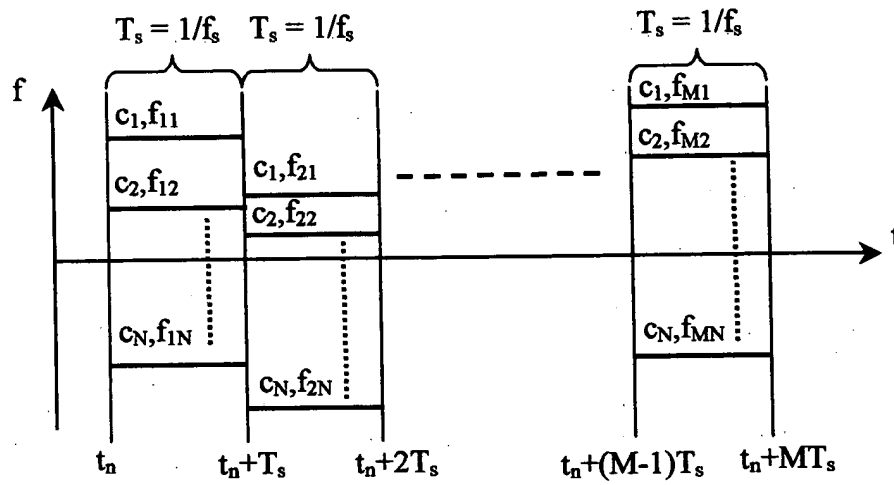


FIG. 6G

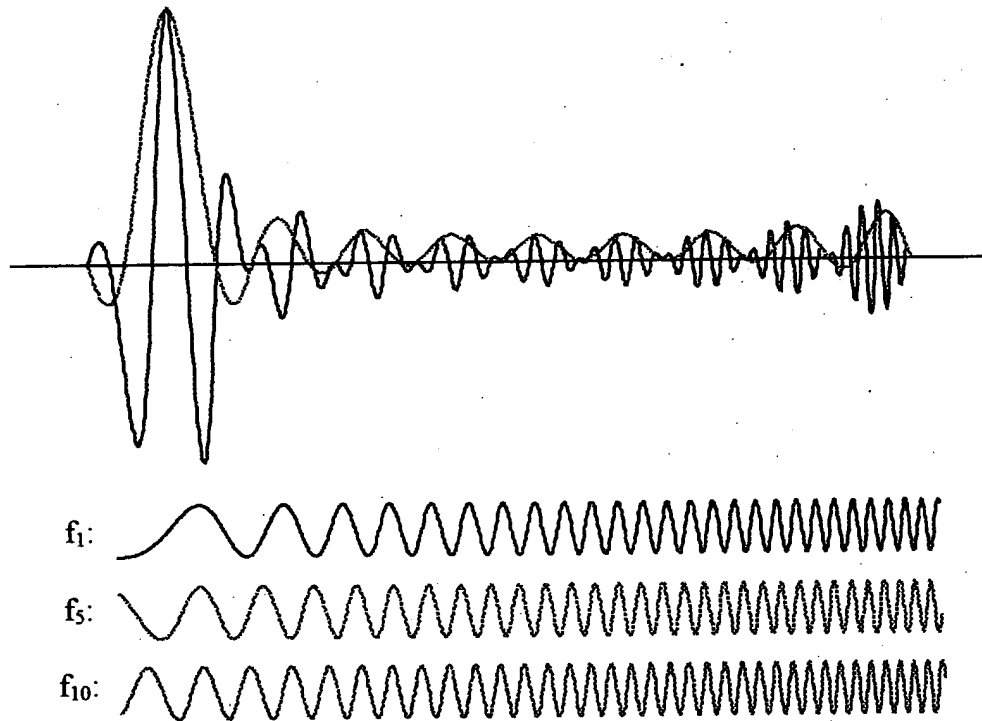


FIG. 7A

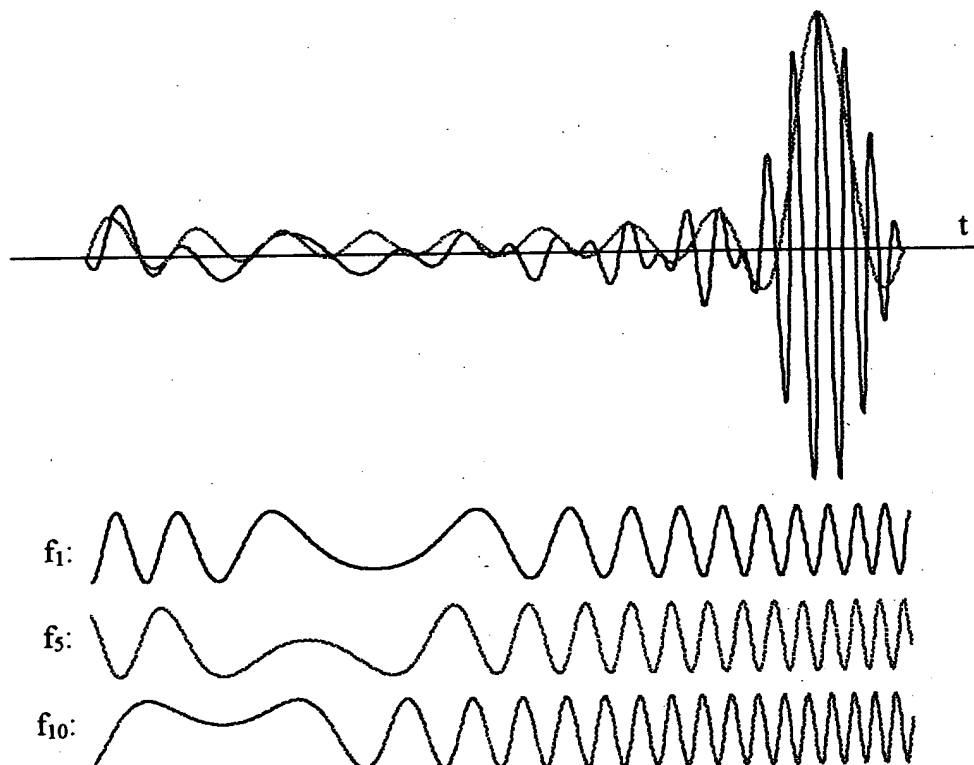


FIG. 7B

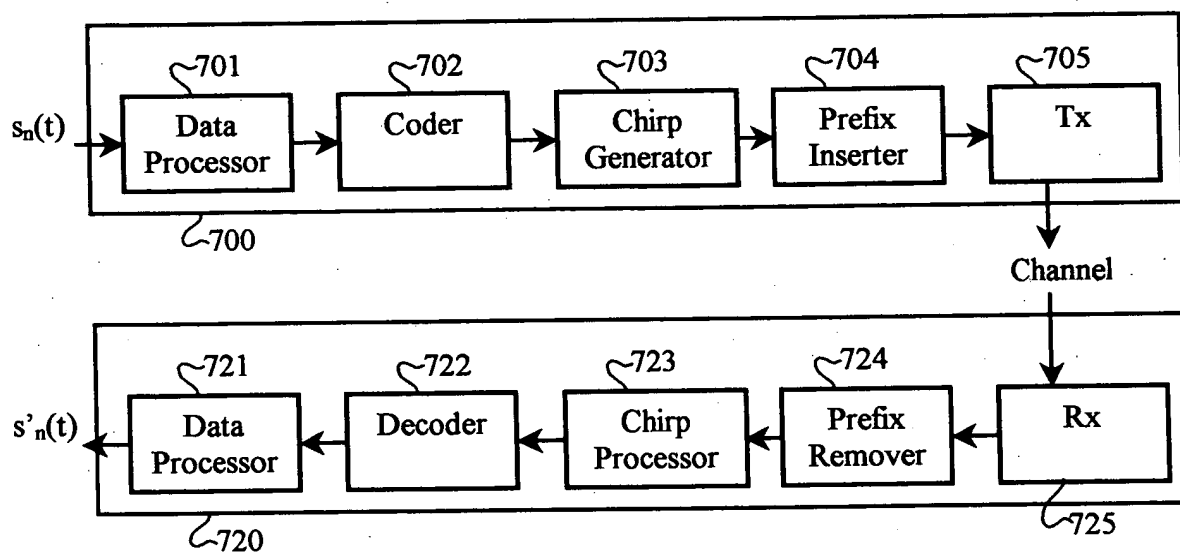


FIG. 7C

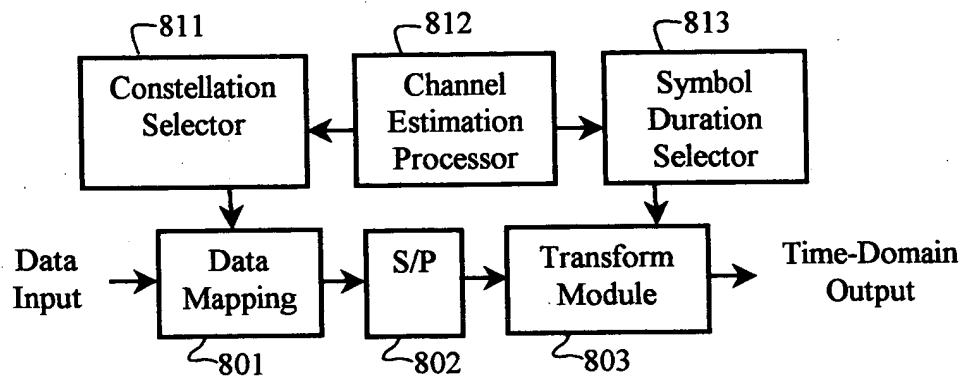


FIG. 8

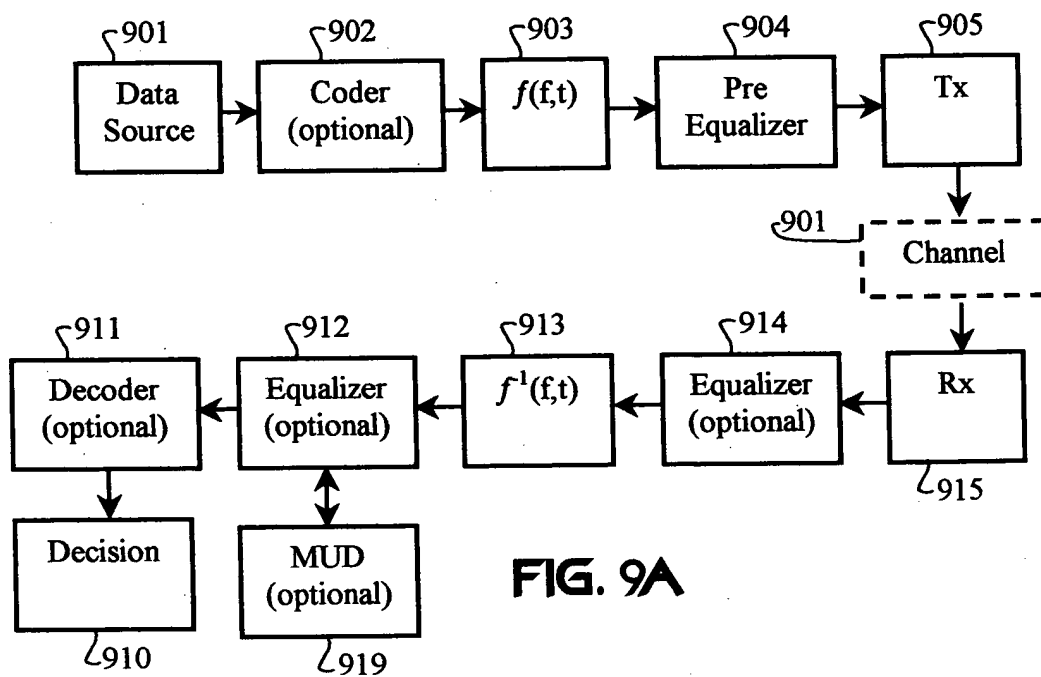


FIG. 9A

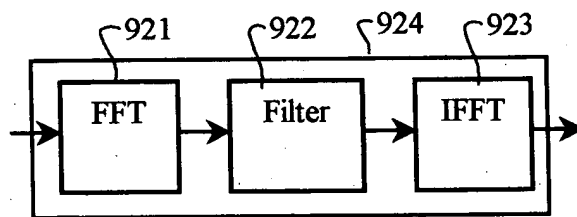


FIG. 9B

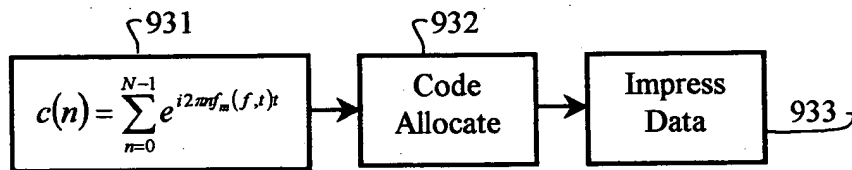


FIG. 9C

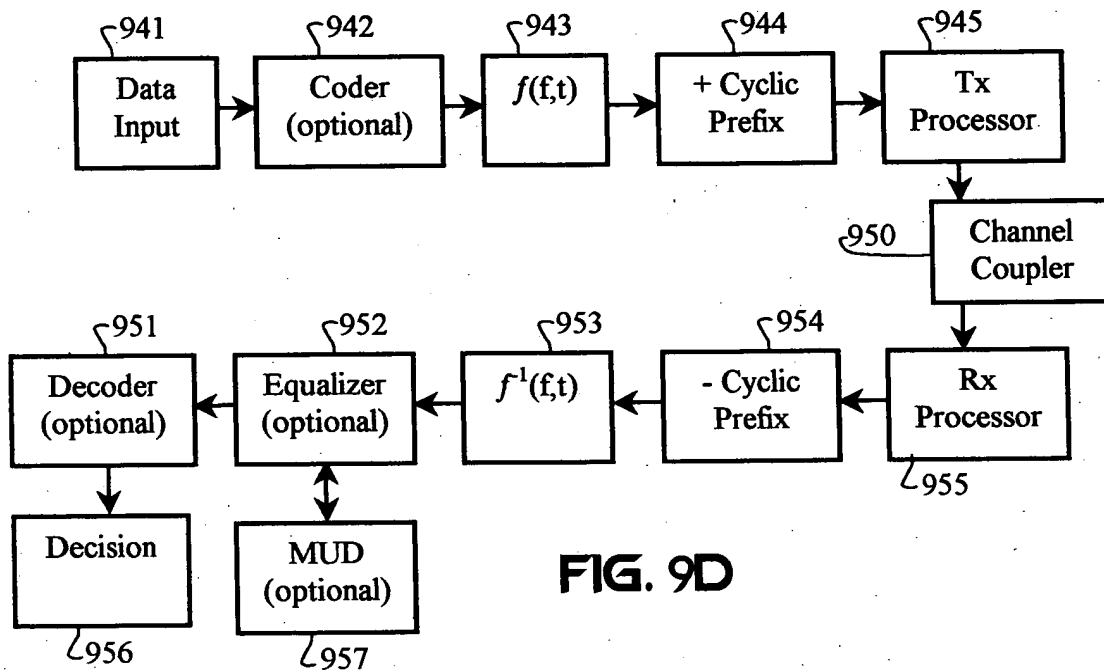


FIG. 9D

f_0 :	1	2	3	4	1	2	3	4
f_1 :	2	3	4	1	2	3	4	1
f_2 :	3	4	1	2	3	4	1	2
f_3 :	4	1	2	3	4	1	2	3
f_4 :	1	2	3	4	2	3	4	1
f_5 :	2	3	4	1	3	4	1	2
f_6 :	3	4	1	2	4	1	2	3
f_7 :	4	1	2	3	1	2	3	4
f_8 :	1	2	3	4	3	4	1	2
f_9 :	2	3	4	1	4	1	2	3
f_{10} :	3	4	1	2	1	2	3	4
f_{11} :	4	1	2	3	2	3	4	1

FIG. 10A

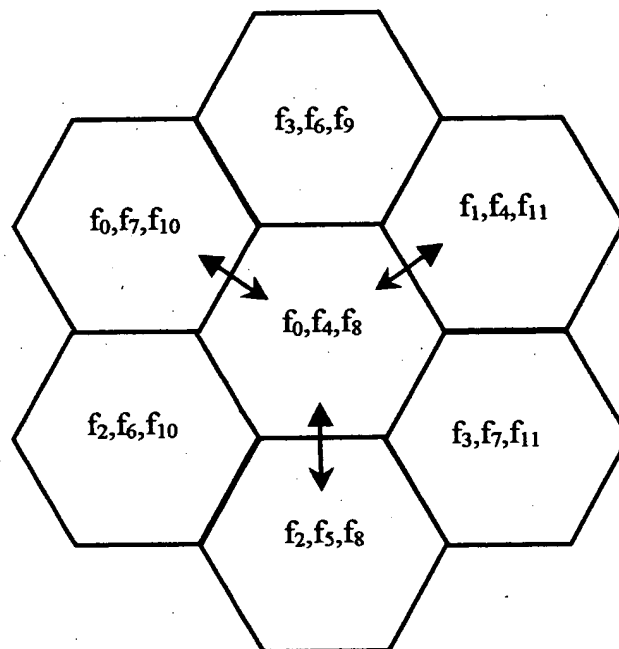


FIG. 10B

	$s_0()$	$s_1()$	.....	0	.....	$s_{k-1}()$
$w_1 = \Sigma():$	$1 + e^{i2\pi(0)(0)/(N)}$	$e^{i2\pi(1)(0)/(N)}$	.....	$e^{i2\pi(2)(0)/(N)}$	.....	$e^{i2\pi(N-1)(0)/(N)}$
$w_2 = \Sigma():$	$e^{i2\pi(0)(1)/(N)}$	$1 + e^{i2\pi(1)(1)/(N)}$	.....	$e^{i2\pi(2)(1)/(N)}$	.....	$e^{i2\pi(N-1)(1)/(N)}$
$w_3 = \Sigma():$	$e^{i2\pi(0)(2)/(N)}$	$e^{i2\pi(1)(2)/(N)}$	.....	$e^{i2\pi(2)(2)/(N)}$	.....	$e^{i2\pi(N-1)(2)/(N)}$
.....
$w_N = \Sigma():$	$e^{i2\pi(0)(N-1)/(N)}$	$e^{i2\pi(1)(N-1)/(N)}$	.....	$e^{i2\pi(2)(N-1)/(N)}$	.....	$1 + e^{i2\pi(N-1)(N-1)/(N)}$

FIG. 11

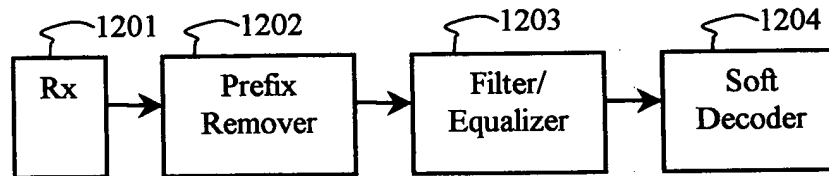


FIG. 12A

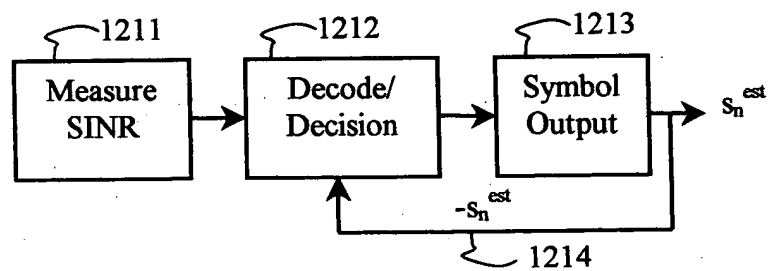


FIG. 12B